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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,688	01/05/2004	Hideaki Takahashi	SIMTEK6719	1687
25776	7590 08/24/2005		EXAMINER	
ERNEST A. BEUTLER, ATTORNEY AT LAW 10 RUE MARSEILLE NEWPORT BEACH, CA 92660			JONES, JUDSON	
			ART UNIT	PAPER NUMBER
			2834	:

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>				1950			
e		Application No.	Applicant(s)	(j)			
		10/707,688	TAKAHASHI, HIDE	AKI			
	Office Action Summary	Examiner	Art Unit				
		Judson H. Jones	2834				
Ti Period for R	he MAILING DATE of this communication eply	on appears on the cover sheet w	vith the correspondence add	ress			
THE MAI  - Extension: after SIX (  - If the period - If NO period - Failure to Any reply	TENED STATUTORY PERIOD FOR F LING DATE OF THIS COMMUNICAT s of time may be available under the provisions of 37 (6) MONTHS from the mailing date of this communicated of for reply specified above is less than thirty (30) days and for reply is specified above, the maximum statutory reply within the set or extended period for reply will, by received by the Office later than three months after the tent term adjustment. See 37 CFR 1.704(b).	TION.  CFR 1.136(a). In no event, however, may a ion.  s, a reply within the statutory minimum of this period will apply and will expire SIX (6) MOI y statute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this com  BANDONED (35 U.S.C. & 133).	ımunication.			
Status				•			
1) Re	sponsive to communication(s) filed on			,			
		This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition	of Claims						
4a) 5)□ Cla 6)図 Cla 7)図 Cla	of the above claim(s) is/are within(s) is/are within(s) is/are allowed.  aim(s) <u>1,2,4 and 5</u> is/are rejected.  aim(s) <u>3 and 6-8</u> is/are objected to.  aim(s) are subject to restriction	thdrawn from consideration.					
Application	Papers						
10)⊠ The App Rep	specification is objected to by the Exact drawing(s) filed on <u>05 January 2004</u> blicant may not request that any objection placement drawing sheet(s) including the coath or declaration is objected to by the second statement of the coath of	is/are: a) accepted or b) coto the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR	R 1.121(d).			
Priority unde	er 35 U.S.C. § 119						
12) Ack a) A 1. 2. 2 3. 1	nowledgment is made of a claim for foll b) Some * c) None of:  Certified copies of the priority documents of the priority documents.	iments have been received. Iments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	Application No  received in this National S	tage			
Attachment(s)			•				
	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-94	4) Interview S	Summary (PTO-413)				
3) 🔲 Informatio	n Disclosure Statement(s) (PTO-1449 or PTO/Ss)/Mail Date		s)/Mail Date Informal Patent Application (PTO-1	152)			

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#### **DETAILED ACTION**

# Claim Objections

Claim 3 is objected to because of the following informalities: the statement that "the bonding agent covers only the circumferential center portion of the magnet sides facing the gap" does not appear to be correct. Support for this claim language appears in paragraph 39 "Only the central area of each flat magnetic pole surface 58N or 585 is covered with the molding resin 61." In looking at figure 6, the circumferential center portion of the pole surface that does not face the gap appears to be covered with the molding resin. Appropriate correction is required.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Japanese reference 2001-352702 A in view of Coles 6,351,050 B1. Japanese reference '702

discloses a rotating electrical machine having a cylindrical surface and a plurality of almost plate

like permanent magnets 62 with a bonding agent 80 surrounding the peripheral edges of the

magnets as shown in figure 7. Coles teaches in column 2 lines 63-64 that flat magnets are

cheaper than arcuate magnets and are easier to produce. Since Coles and Japanese reference '702

are from the same field of endeavor it would have been obvious at the time the invention was

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made for one of ordinary skill in the art to have utilized planar magnets in place of the almost planar magnets of Japanese reference '702 in order to reduce the cost of the device.

In regard to claims 2, 4 and 5, see Japanese reference '702 figure 7.

### Allowable Subject Matter

Claims 3 and 6-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not disclose or teach a bonding agent covering only the center portion of a magnet side in combination with the other features of claim 3. The prior art of record does not disclose or teach a bonding agent in a shape having a cylindrical surface facing the gap in combination with the other features of claim 6. Coles discloses a cylindrical surface opposing an air gap but there are no areas of the magnet exposed to the gap.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Japanese references 2000-197293 A and 2001-45720 disclose a couple more ways of attaching permanent magnets to an external rotor. Japanese reference '293 discloses planar permanent magnets in slots in figure 3. Japanese reference '720 teaches attaching permanent magnets to the inner surface of an external rotor by means of adhesive.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judson H. Jones whose telephone number is 571-272-2025. The examiner can normally be reached on 8-4:30 M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Judson Jones 8/19/2005

DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800